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Dated: 10/28/02 Signature: Anna P Lucey (Anna P. Lucey)

Docket No.: GPCG-P01-017
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Varshavsky et al.

Application No.: 09/923917 Group Art Unit: 1645

Filed: August 6, 2001 Examiner: Not Yet Assigned

For: SPLIT-UBIQUITIN BASED REPORTER SYSTEMS AND METHODS OF THEIR USE

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
Washington, DC 20231

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned.

A copy of each reference on PTO/SB/08 is attached.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents should one or more of the documents be applied against the claims of the present application.

Dated:

Respectfully submitted,

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Form PTO/SB/08 **INFORMATION DISCLOSURE CITATION IN AN APPLICATION** *(Use several sheets if necessary)*	Docket Number (Optional) GPCG-P01-017	Application Number 09/923,917
	Applicant Varshavsky et al.	
	Filing Date August 6, 2001	Group Art Unit 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,503,977	4/2/96	Johnsson et al.			
	AB	5,585,245	12/17/96	Johnsson et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages Etc.)*

	AC	Bachmair, A. et al. In Vivo Half-Life of a Protein is a Function of its Amino-Terminal Residue. *Science* 234, 179-186 (1986).
	AD	Baker, R.T. & Varshavsky, A. Yeast N-terminal Amidase. *J. Biol. Chem.* 270, 12065-12074 (1995).
	AE	Balzi, E. et al. Cloning and Functional Analysis of the Arginyl-tRNA-protein Transferase Gene ATE1 of Saccharomyces cerevisiae. *J. Biol. Chem.* 265, 7464-7471 (May 1990).
	AF	Bartel, B. et al. The Recognition Component of the N-end Rule Pathway. *EMBO J.* 9, 3179-3189 (1990).
	AG	Darsow, T. et al. A Multispecificity Syntaxin Homologue, Vam3p, Essential for Autophagic and Biosynthetic Protein Transport to the Vacuole. *J. Cell Biol.* 138, 517-529 (11 Aug. 1997).
	AH	Dohmen, R.J. et al. The N-end rule is mediated by the UBC(RAD6) ubiquitin-conjugating enzyme. *PNAS* 88, 7351-7355 (Aug. 1991).
	AI	Ghislain, M. et al. Cdc48p Interacts with Ufd3p, a WD repeat protein required for ubiquitin-mediated proteolysis in Saccharomyces cerevisiae. *EMBO J.* 15, 4884-4899 (1996)
	AJ	Johnsson, N. *Workshops of the Future*, Max-Planck Company, Munich 131-135 (1997).
	AK	Johnsson, N. & Varshavsky, A. Split ubiquitin as a sensor of protein interactions in vivo. *PNAS* 91, 10340-10344 (Oct. 1994).
	AL	Kwon, Y.T. et al. The mouse and human gene encoding the recognition component of the N-end rule pathway. *PNAS* 95, 7898-7903 (July 1998).
	AM	Ozkaynak, E. et al. The Yeast Ubiquitin Genes: A Family of Natural Gene Fusions. *EMBO J.* 6, 1429 (1987).

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	AN	Srivastava, A. & Jones, E.W. Pth1/Vam3p is the Syntaxin Homolog at the Vacuolar Membrane of Saccharomyces cerevisae Required for the Delivery of Vacuolar Hydrolases. *Genetics* 148, 85-98 (Jan. 1998).
	AO	Stagljar, I. et al. A genetic system based on split-ubiquitin for the analysis of interactions between membrane proteins in vivo. *PNAS* 95, 5187-5192 (April 1998).
	AP	Varshavsky, A. The N-End Rule. *Cell* 69, 725-735 (1992).
	AQ	Varshavsky, A. The N-end Rule Pathway of Protein Degradation. *Genes Cell* 2, 13-28 (1997).
	AR	Wada, Y. et al. Vam3p, a new member of syntaxin related protein, is required for vacuolar assembly in the yeast Sacchharomyces cerevisiae. *J. Cell Sci.* 110, 1299-1306 (1997).
	AS	Wittke, S. et al. Probing the Molecular Enviroment of Membrane Proteins in Vivo. *Mol. Biol. Cell* 10, 2519-2530 (Aug. 1999).

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERERCE